

Assignment- 4

Assignment Date

30 October 2022

Student Name

Makeshvar S

Student Roll Number

212219060152

Maximum Marks

2 Marks

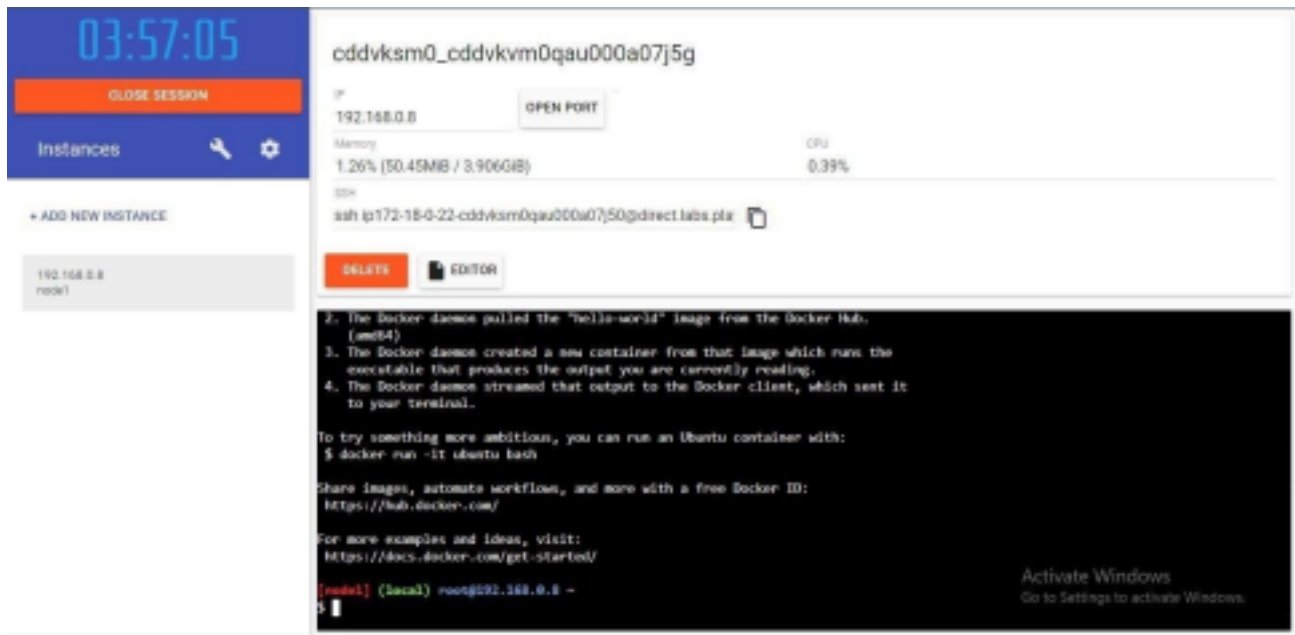
Question 1:

Pull an image from docker hub and run it in docker playground.

The screenshot displays the Docker Playground interface. On the left, a sidebar shows a timer at 03:57:32, a 'CLOSE SESSION' button, and an 'Instances' section with a search icon and a settings gear. Below this is an 'ADD NEW INSTANCE' button and a list of instances, including one named '192.168.0.8' with a 'root' user. The main area shows a terminal window for an instance named 'cddvksm0_cddvkvm0qau000a07j5g'. The terminal output includes a warning about the sandbox environment, a Docker pull command for 'hello-world', and a Docker run command. The terminal text is as follows:

```
#####  
# WARNING!!!!  
# This is a sandbox environment. Using personal credentials  
# is HIGHLY discouraged. Any consequences of doing so are  
# completely the user's responsibility.  
#  
# The PND team.  
#####  
[root@localhost ~]# docker pull hello-world  
Using default tag: latest  
latest: Pulling from library/hello-world  
24629730121e: Pull complete  
Digest: sha256:e389a77aef4e67f671a6e3e4d05e1a577c95a1a64f32a600121d5e7  
Status: Downloaded newer image for hello-world:latest  
docker.io/library/hello-world:latest  
[root@localhost ~]# docker run hello-world
```

An 'Activate Windows' watermark is visible in the bottom right corner of the terminal window.



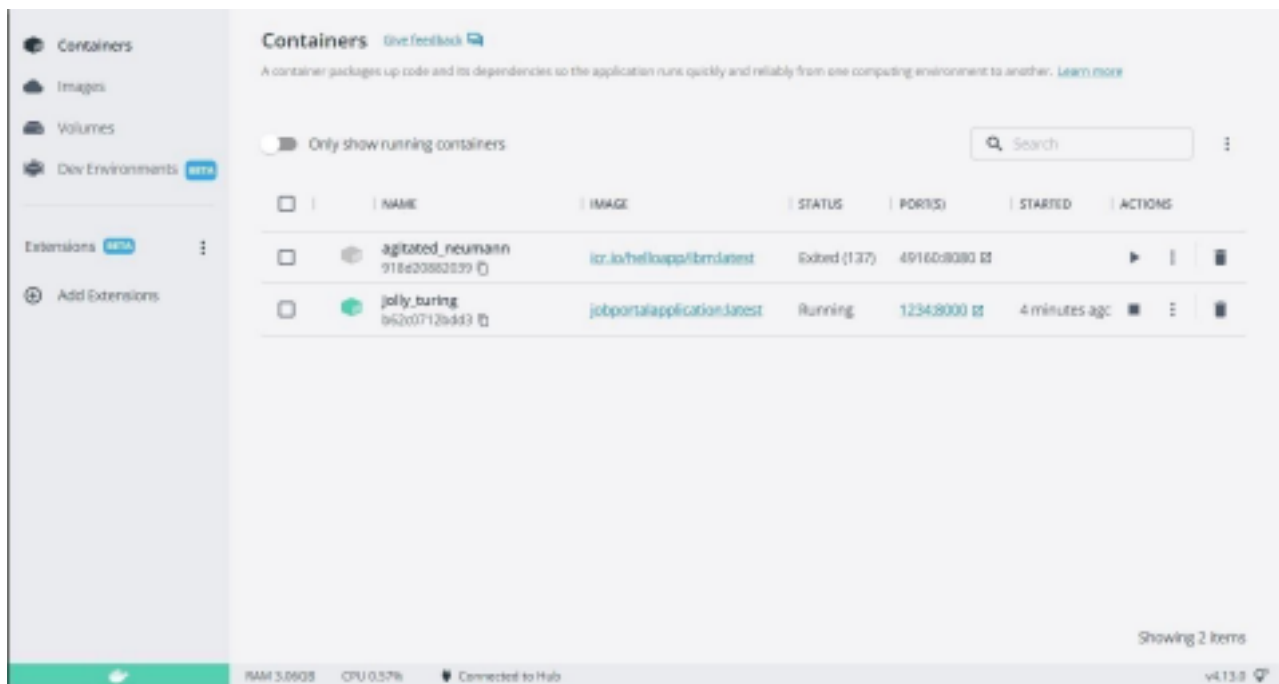
Question 2:

Create a docker file for the job portal application and deploy it in Docker

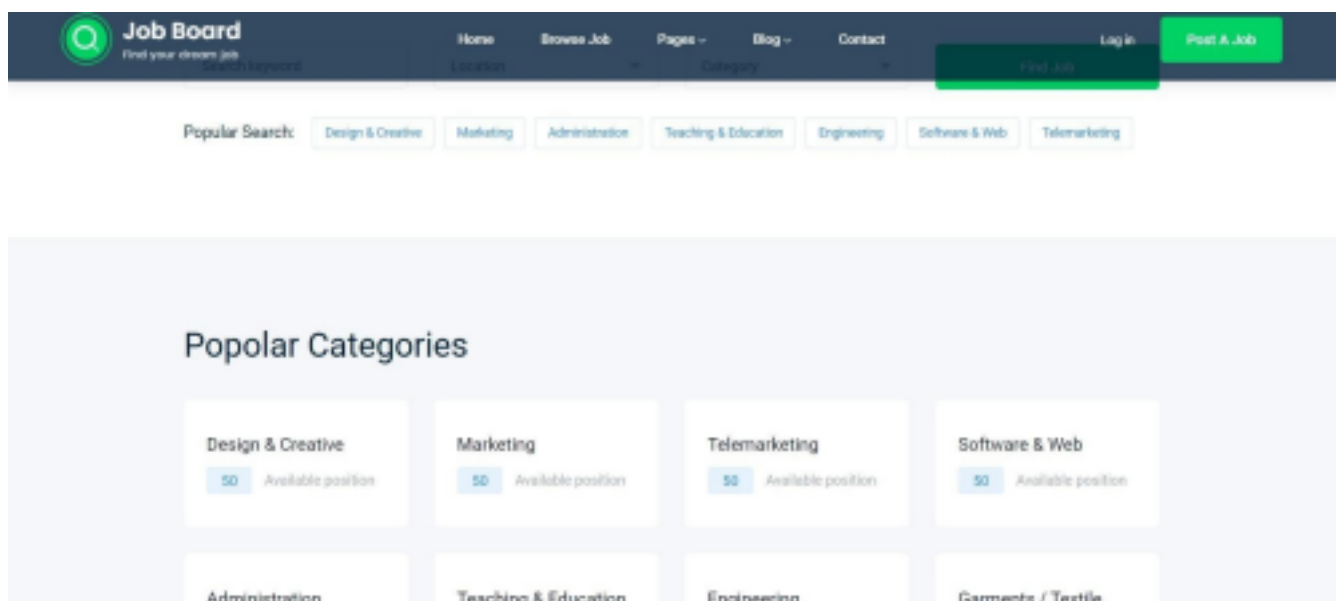
desktopapplication.DOCKER FILE:

```
1 FROM python:3.8-buster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6
7 RUN pip install -r requirements.txt
8
9 COPY . /app/
10
11 RUN cp .env.dev.sample .env
12
13 EXPOSE 8000
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]
```

DEPLOYMENT OF JOBPOTAL APPLICATION:



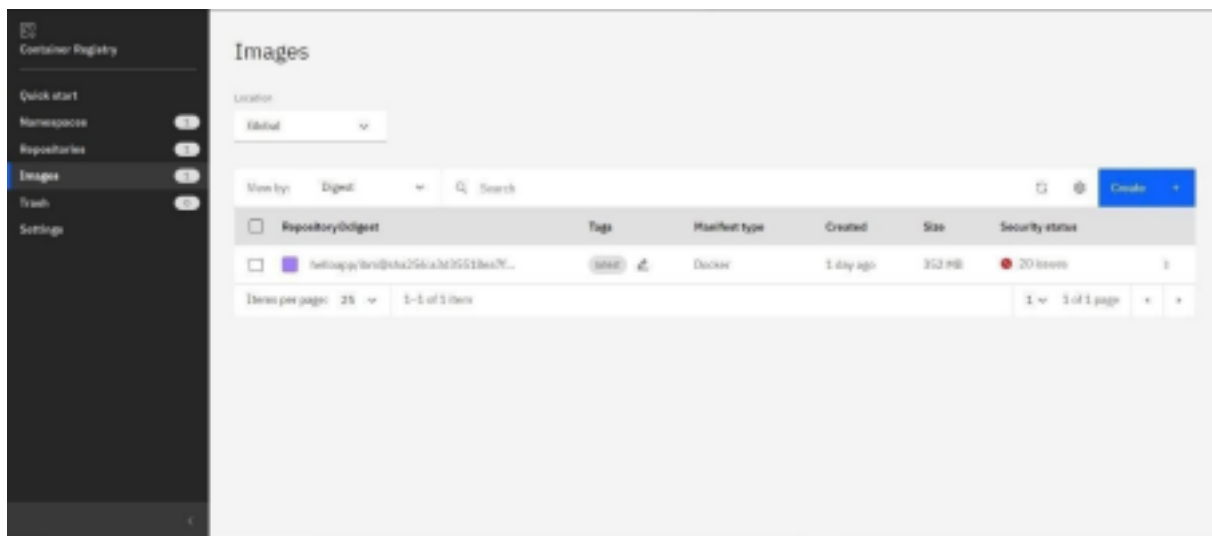
OUTPUT:



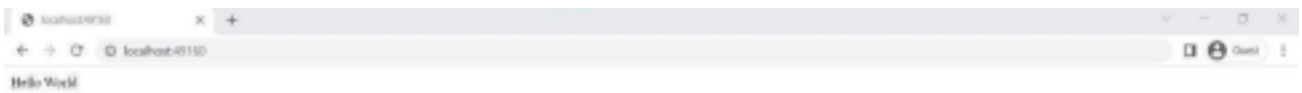
Question 3:

Create a IBM container registry and deploy hello-world app or job port app.IBM

CONTAINER REGISTRY DEPLOYMENT:



OUTPUT:



Question 4:

Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Creating Kubernetes cluster in IBM cloud and exposing node port:

